

Title (en)  
LIGHT SOURCE

Title (de)  
LICHTQUELLE

Title (fr)  
SOURCE DE LUMIÈRE

Publication  
**EP 3140368 B1 20191113 (EN)**

Application  
**EP 15727868 A 20150505**

Priority  
• CZ 2014302 A 20140505  
• CZ 2015000040 W 20150505

Abstract (en)  
[origin: WO2015169270A2] The light source (1) is based on a high-efficiency solid-state laser source (2) of the excitation coherent radiation (3) and a single crystal phosphor (4) which is machined in a form of an optic element for emitted light parameterisation. The single crystal phosphor (4) is produced from a single crystal material on the basis of garnets of the (Ax, Lu1-x)AlbO12:Cec general formula or from a single crystal material on the basis of perovskite structure of the B1-qAlO3:Dq general formula. The efficient light source (1) shall be utilized e.g. in the automotive industry.

IPC 8 full level  
**C09K 11/77** (2006.01); **F21K 9/64** (2016.01); **F21V 3/00** (2015.01); **F21V 8/00** (2006.01); **F21V 9/08** (2018.01); **F21V 9/30** (2018.01); **F21V 13/12** (2006.01); **F21V 15/01** (2006.01); **H01S 5/00** (2006.01); **H01S 5/022** (2006.01); **H01S 5/40** (2006.01); **F21Y 115/10** (2016.01); **F21Y 115/30** (2016.01)

CPC (source: CN EP KR RU US)  
**C09K 11/57** (2013.01 - KR RU); **C09K 11/68** (2013.01 - KR RU); **C09K 11/7706** (2013.01 - CN EP KR RU US); **C09K 11/7721** (2013.01 - RU); **C09K 11/7774** (2013.01 - CN EP KR RU US); **C09K 11/7792** (2013.01 - CN EP KR RU US); **F21K 9/61** (2016.08 - KR); **F21K 9/64** (2016.08 - EP KR US); **F21S 15/00** (2013.01 - RU); **F21V 3/00** (2013.01 - US); **F21V 9/08** (2013.01 - US); **F21V 9/30** (2018.02 - EP US); **F21V 9/32** (2018.02 - EP KR US); **F21V 9/38** (2018.02 - EP KR US); **F21V 13/12** (2013.01 - CN); **F21V 13/14** (2013.01 - EP KR US); **F21V 15/01** (2013.01 - KR US); **G02B 6/0008** (2013.01 - EP US); **F21K 9/61** (2016.08 - EP US); **F21Y 2101/00** (2013.01 - CN KR); **F21Y 2115/10** (2016.08 - EP KR US); **F21Y 2115/30** (2016.08 - EP KR US); **H01S 5/0087** (2021.01 - EP US); **H01S 5/02212** (2013.01 - EP US); **H01S 5/0225** (2021.01 - EP); **H01S 5/02251** (2021.01 - EP); **H01S 5/4025** (2013.01 - EP US); **Y02B 20/00** (2013.01 - KR)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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